Microsoft

.net developer training

Create XML Web Services and Applications with Visual Studio .NET

Creating Windows® Applications

Module 08 Agenda

- Introduction
- Windows Forms
- New Features
  - Can access XML Web services
  - Visual inheritance
  - Deployment
- Additional Features

Introduction
Why Build Windows Applications Today?

- Brings existing application model forward
- Greater control over user interface
- Better packaging and security than Web Applications

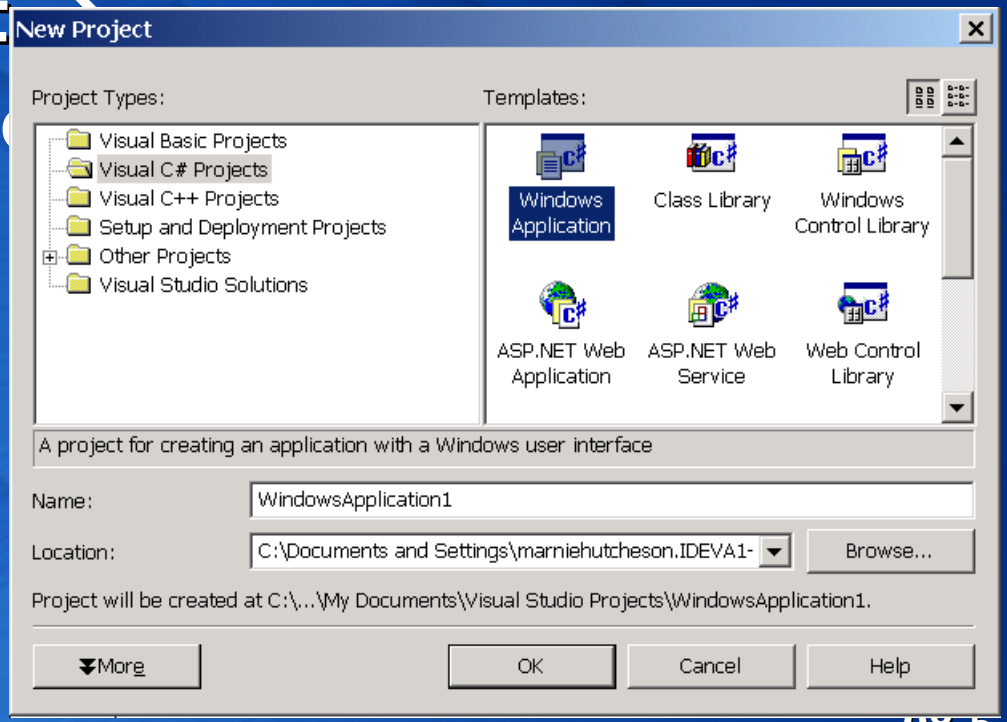
Introduction: Application Architecture

- .EXE is like traditional applications
  - .EXE is an assembly
  - Runs as managed code
- Creating new applications

File → New Project →

Windows Applicati

  - Drop controls
  - Press F5 to run

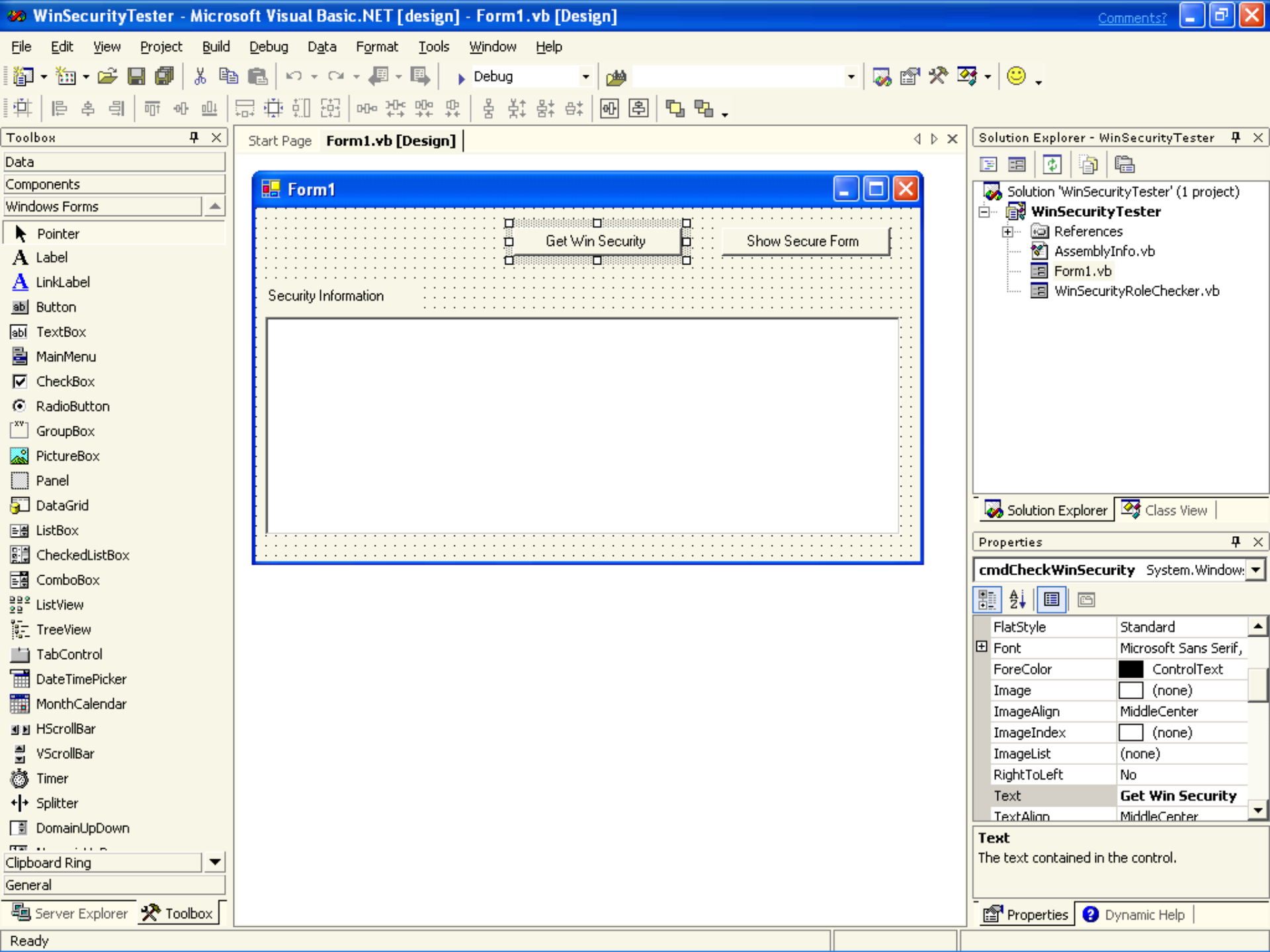


Windows Forms

- Shared across all .NET languages
- Full inheritance model
- Integration with Web Applications
- Integration with XML Web service
- Full access to .NET Framework and Win32® API's
- Easy no-touch deployment

Windows Forms

- Smart and powerful client UI
  - New look and feel options
- Secure
  - Semi-trusted browser component
  - Fully-trusted local application
- Localization
- Accessibility

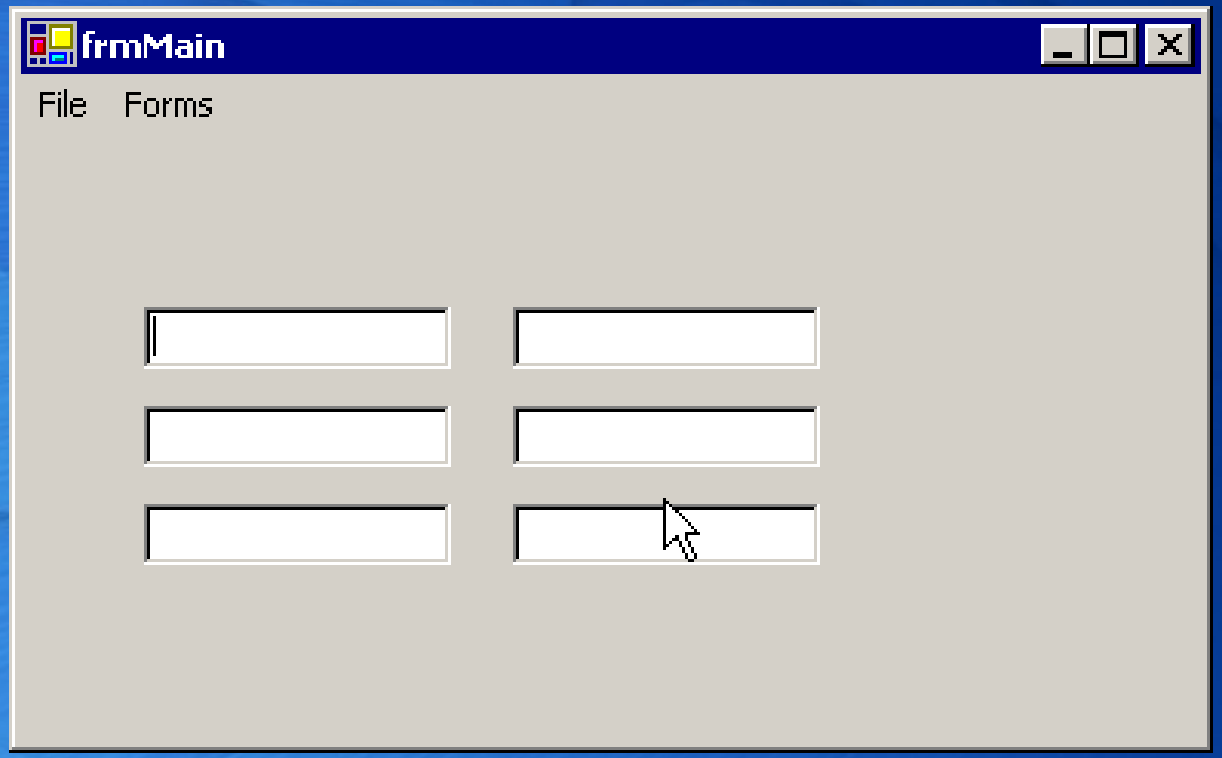

WinSecurityTester - Microsoft Visual Basic.NET [design] - Form1.vb [Design]
Comments?
File Edit View Project Build Debug Data Format Tools Window Help
Debug
Toolbox
Data
Components
Windows Forms
Pointer
Label
LinkLabel
Button
TextBox
MainMenu
CheckBox
RadioButton
GroupBox
PictureBox
Panel
DataGrid
ListBox
CheckedListBox
ComboBox
ListView
TreeView
TabControl
DateTimePicker
MonthCalendar
HScrollBar
VScrollBar
Timer
Splitter
DomainUpDown
Clipboard Ring
General
Server Explorer
Toolbox
Start Page
Form1.vb [Design]
Form1
Get Win Security
Show Secure Form
Security Information
Solution Explorer - WinSecurityTester
Solution 'WinSecurityTester' (1 project)
WinSecurityTester
References
AssemblyInfo.vb
Form1.vb
WinSecurityRoleChecker.vb
Solution Explorer
Class View
Properties
cmdCheckWinSecurity System.Window
FlatStyle Standard
Font Microsoft Sans Serif,
ForeColor ControlText
Image (none)
ImageAlign MiddleCenter
ImageIndex (none)
ImageList (none)
RightToLeft No
Text Get Win Security
TextAlign MiddleCenter
Text
The text contained in the control.
Properties
Dynamic Help
Ready

Windows Forms Basics

- Controls
- Accessing data
- Printing
- Accessing Win32 API
- Full support for .NET Framework

Windows Forms Basics
Demo

Windows Forms Intro



Working With Controls

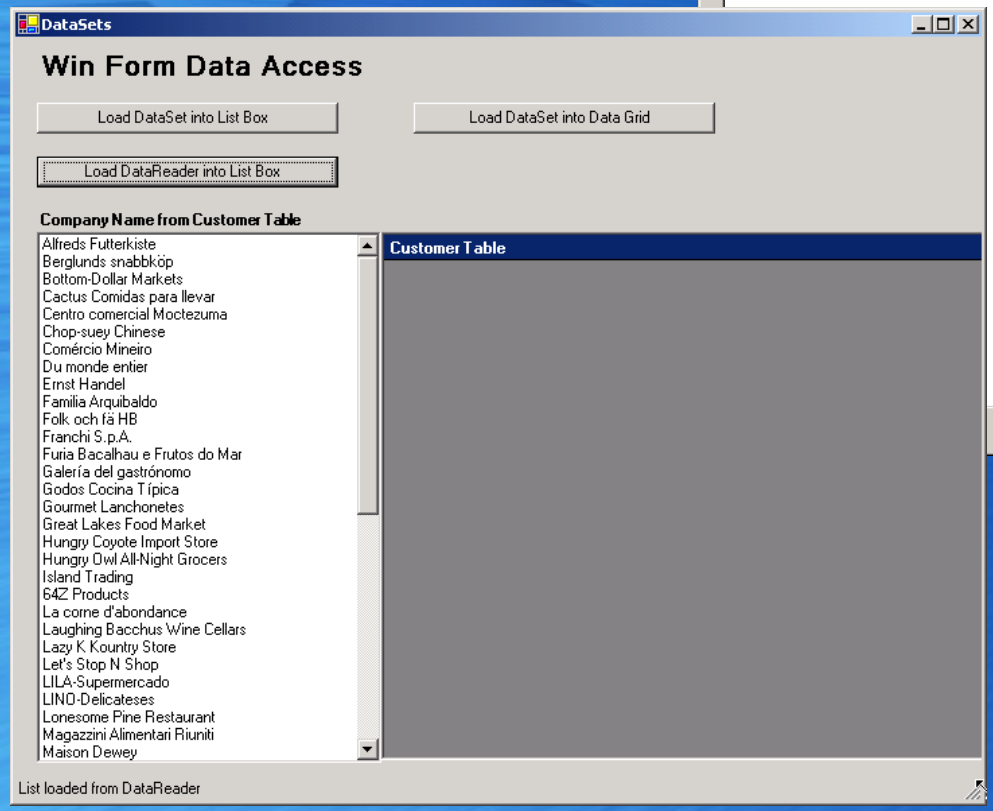
- Control properties are consistent
  - No caption, use text
- Control collection
  - Use the controls collection
    - Replaces ControlArray in Visual Basic 6 and before

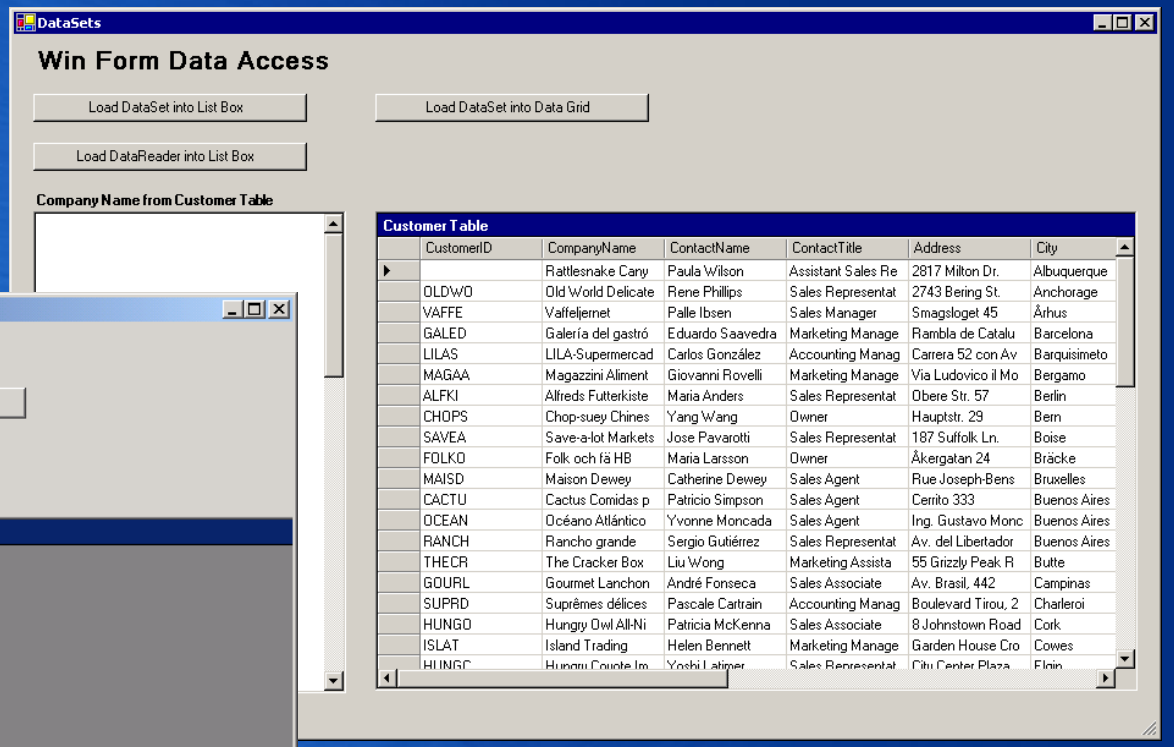
Working With Controls
Demo

- Windows Forms and Controls Intro

Adding Databound Controls
Demo

- Windows Databinding



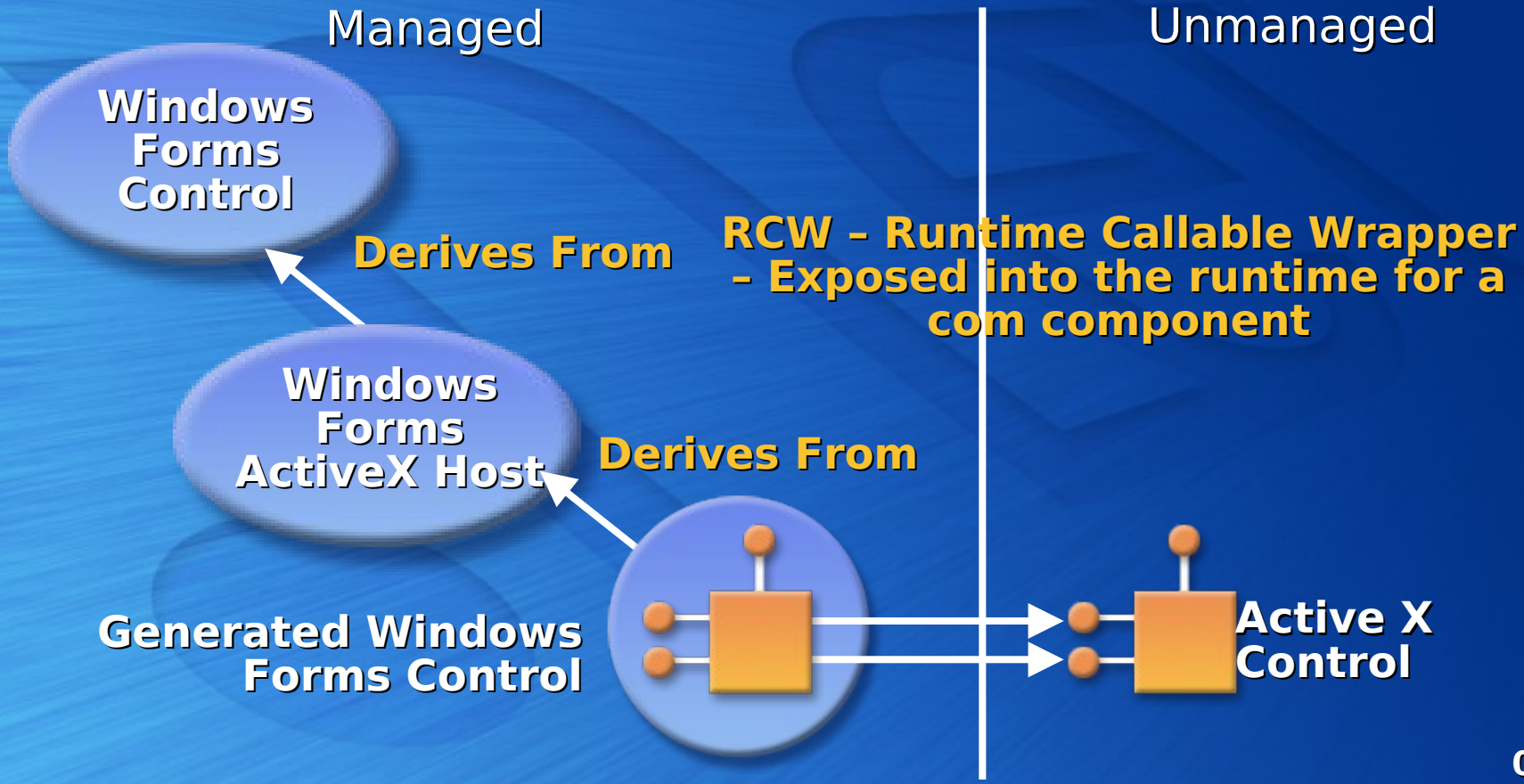

DataSets
Win Form Data Access
Load DataSet into List Box
Load DataSet into Data Grid
Load DataReader into List Box
Company Name from Customer Table
Customer Table
CustomerID CompanyName ContactName ContactTitle Address City
Rattlesnake Cany Paula Wilson Assistant Sales Re 2817 Milton Dr. Albuquerque
OLDWO Old World Delicate Rene Phillips Sales Representat 2743 Bering St. Anchorage
VAFFE Vaffeljernet Palle Ibsen Sales Manager Smagsloget 45 Århus
GALED Galería del gastró Eduardo Saavedra Marketing Manage Rambla de Catalu Barcelona
LILAS LILA-Supermercad Carlos González Accounting Manag Carrera 52 con Av Barquisimeto
MAGAA Magazzini Aliment Giovanni Rovelli Marketing Manage Via Ludovico il Mo Bergamo
ALFKI Alfreds Futterkiste Maria Anders Sales Representat Obere Str. 57 Berlin
CHOPS Chop-suey Chines Yang Wang Owner Hauptstr. 29 Bern
SAVEA Save-a-lot Markets Jose Pavarotti Sales Representat 187 Suffolk Ln. Boise
FOLKO Folk och fä HB Maria Larsson Owner Åkergatan 24 Bräcke
MAISD Maison Dewey Catherine Dewey Sales Agent Rue Joseph-Bens Bruxelles
CACTU Cactus Comidas p Patricio Simpson Sales Agent Cerrito 333 Buenos Aires
OCEAN Océano Atlántico Yvonne Moncada Sales Agent Ing. Gustavo Monc Buenos Aires
RANCH Rancho grande Sergio Gutiérrez Sales Representat Av. del Libertador Buenos Aires
THECR The Cracker Box Liu Wong Marketing Assista 55 Grizzly Peak R Butte
GOURL Gourmet Lanchon André Fonseca Sales Associate Av. Brasil, 442 Campinas
SUPRD Suprêmes délices Pascale Cartrain Accounting Manag Boulevard Tirou, 2 Charleroi
HUNGO Hungry Owl All-Ni Patricia McKenna Sales Associate 8 Johnstown Road Cork
ISLAT Island Trading Helen Bennett Marketing Manage Garden House Cro Cowes

New Features of Windows Forms Topics

- Access Web services
- ActiveX® Controls on Windows Forms
- Visual inheritance
- Deployment
  - Standard deployment
  - Auto-deployment over the Web

ActiveX® Control Hosting

- Seamless
- ActiveX controls will appear to be just another Windows Forms control



Inheritance

- **Windows Forms support inheritance**
  - **Works like inheriting classes (a form is a class)**
  - **Provides “visual” inheritance**
  - **Can override visual elements**
  - **Code in base class is also inherited**
  - **Use for:**
    - **Standard “base” forms for applications**
    - **Standard dialogs**
    - **Other common visual elements**

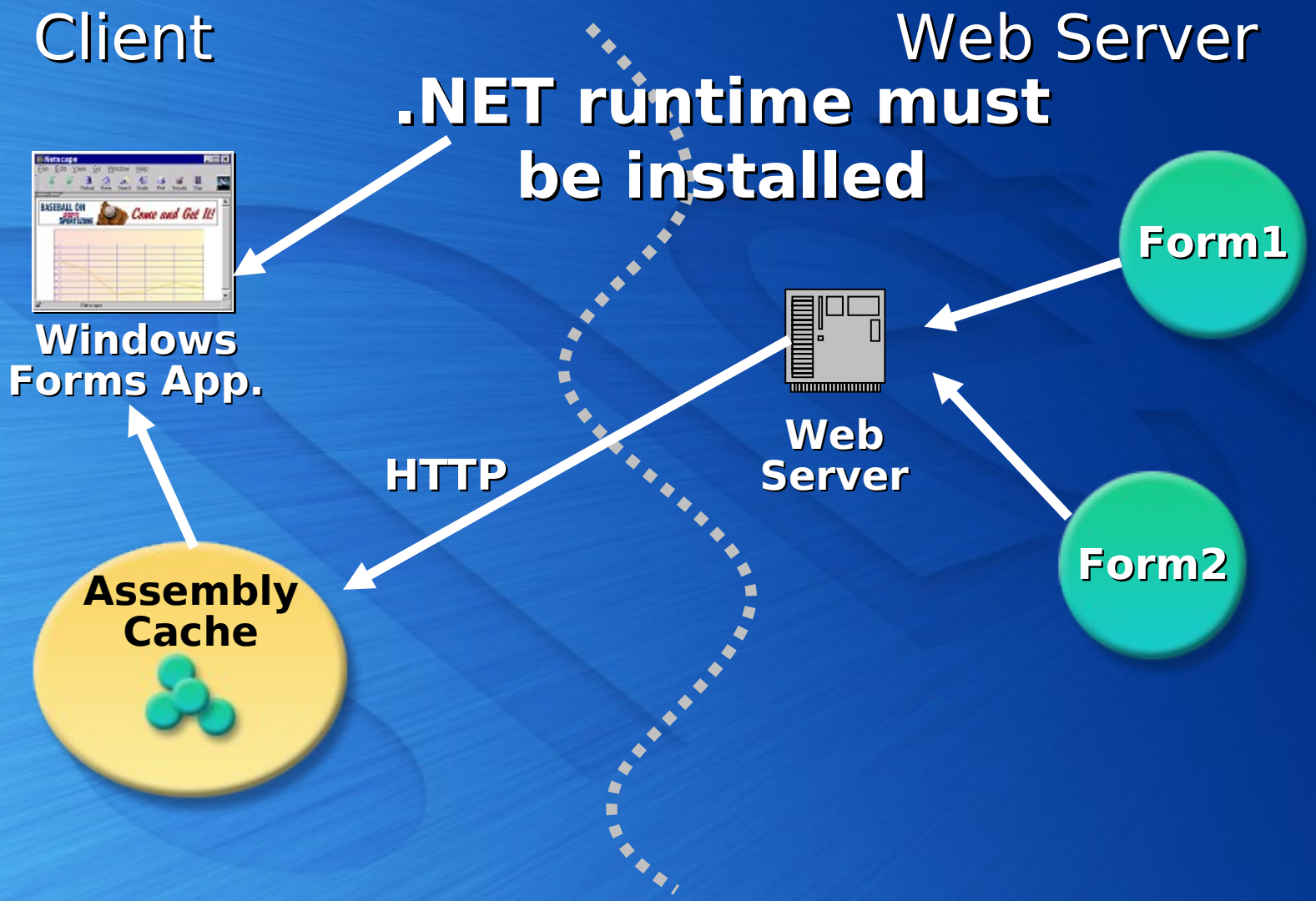
Inheritance

- Create form projects as a base class
  - Controls
    - Can lock controls or let subclasses override them
  - Code
    - Code is inherited like visual elements

Auto Deployment

- No-touch deployment
  - Application isolation is the default
  - No registration is required
  - Versioning with no side affects
  - Web-based deployment
- Secure
  - Safe to run downloaded code
- Full integration with .NET Framework
  - Web service aware
  - Data aware

Auto Deployment



Summary

- You still can build Windows Applications
- Smart User Interface
- Deployment
  - Easy to install
  - Solves DLL Hell
  - Code Access Security makes downloadable code safe
- Integration with XML Web services

NorthWind Traders Travel and Windows Applications

- Demo

Resources

- ***An introduction to Windows Forms*** **- Creating basic forms in a Windows Application**
  http://msdn.microsoft.com/vstudio/nextgen/technology/winforms.asp
- ***The Basics of Windows Forms*** **- A simple definition of Windows Forms**
  http://msdn.microsoft.com/library/dotnet/cpguide/cpconintroductiontoforms.htm

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08.23